PERBANDINGAN STABILITAS ASAM *O*-(4-METILBENZOIL)SALISILAT DENGAN ASAM *O*-ASETILSALILSILAT PADA REAKSI HIDROLISIS DALAM pH 11

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ABSTRACT

O-(4-methylbenzoyl) salicylic acid has great potency to be developed furthermore, because it has an analgesic activity that similar with acetyl salicylic acid. This reseach was conducted to compare the stability between *O*-(4-methylbenzoyl)salicylic acid and acetylsalicylic acid against hydrolysis reaction. The stability was determined by observing the degradation of these compounds in buffer solution pH 11 heated at constant temperature 80^0C. The reactan concentration was determined by measuring salicylic acid produced periodically in observed time 180 minutes. The quantitative analysis was done by spectrophotometry UV method. It was concluded that in condition pH 11, *O*-(4-methylbenzoyl)salicylic acid was more stable than acetylsalicylic acid

Keywords: *O*-(4-methylbenzoil)salicylic acid, acetylsalicylic acid, stability against hydrolysis, UV spectrophotometry